

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings of claims in the application:

Claims 1-10 (Canceled).

Claim 11 (Currently Amended): A syntactic polyurethane prepared by the process, comprising:

[[of]] reacting

- a) a polyisocyanate component with
- b) a polyol component,

the polyol component b) comprising the constituents

- b1) a polyetherpolyol based on a difunctional initiator molecule,
- b2) a polyetherpolyol based on a trifunctional initiator molecule and
- b3) a chain extender,

in the presence of

- c) hollow microspheres,

the polyol constituent

b2) comprising the constituents

- b2-1) a polyetherpolyol based on a trifunctional initiator molecule having an average molecular weight of from 400 to 3500 g/mol, and
- b2-2) a polyetherpolyol based on a trifunctional initiator molecule having an average molecular weight of from more than 3500 to 8000 g/mol.

Claim 12 (Previously Presented): The syntactic polyurethane according to claim 11, wherein the polyol component b) additionally comprises a constituent

b4) a polyetherpolyol based on an initiator molecule which is tetrafunctional or has a higher functionality.

Claim 13 (Previously Presented): The syntactic polyurethane according to claim 11, wherein the individual constituents of the polyol component b) are selected so that the polyol component b) has a viscosity at 25°C of less than 500 mPa.s, measured according to DIN 53019.

Claim 14 (Previously Presented): The syntactic polyurethane according to claim 11, wherein the component

b1) is present in an amount of from 20 to 60% by weight, the component  
b2) is present in an amount of from 20 to 60% by weight, and the component  
b3) is present in an amount of from 5 to 25% by weight,  
based on the total weight of the polyol component b).

Claim 15 (Currently Amended): A process for the preparation of syntactic polyurethanes, comprising:

[[by]] reacting

a) a polyisocyanate component with  
b) a polyol component,

the polyol component b) comprising the constituents

b1) a polyetherpolyol based on a difunctional initiator molecule,  
b2) a polyetherpolyol based on a trifunctional initiator molecule and  
b3) a chain extender,

in the presence of

c) hollow microspheres,

the polyol constituent b2) comprising the constituents

b2-1) a polyetherpolyol based on a trifunctional initiator molecule

having an average molecular weight of from 400 to 3500 g/mol and

b2-2) a polyetherpolyol based on a trifunctional initiator molecule

having an average molecular weight of from more than 3500 to 8000 g/mol.

Claim 16 (Currently Amended): A method of ~~using for insulating~~ an offshore pipe ~~an~~ inner pipe ~~of~~ comprising:

applying a reaction mixture comprising the following component a), b) and c) to an inner pipe of said offshore pipe;

~~a syntactic polyurethane prepared by the process of reacting~~

a) a polyisocyanate component with

b) a polyol component,

the polyol component b) comprising the constituents

b1) a polyetherpolyol based on a difunctional initiator molecule,

b2) a polyetherpolyol based on a trifunctional initiator molecule and

b3) a chain extender,

in the presence of[.]

c) hollow microspheres;

to obtain a layer of a syntactic polyurethane.

Claim 17 (Currently Amended): An offshore pipe, comprising ~~composed of~~

(i) an inner pipe and, adhesively applied thereto,

(ii) a layer of a syntactic polyurethane prepared by the process of reacting

a) a polyisocyanate component with

b) a polyol component,

the polyol component b) comprising the constituents

b1) a polyetherpolyol based on a difunctional initiator molecule,

b2) a polyetherpolyol based on a trifunctional initiator molecule

and

b3) a chain extender,

in the presence of

c) hollow microspheres.

Claim 18 (Previously Presented): The offshore pipe according to claim 17, wherein the layer (ii) of syntactic polyurethane has a thickness of from 5 to 200 mm.

Claim 19 (Currently Amended): A process for the production of an offshore pipe ~~pipes according to claim 17~~, comprising the steps

1) providing an inner pipe which is to be coated with syntactic polyurethane,

2) rotating said pipe to be coated, and

3) applying to the rotating pipe an unreacted reaction mixture for the production of the layer of syntactic polyurethane, comprising the components a), b) and c),

to obtain said offshore pipe according to claim 17.

Claim 20 (New): The syntactic polyurethane according to claim 11, which has a softening point above 150°C.

Claim 21 (New): The syntactic polyurethane according to claim 11, wherein said hollow microspheres are organic hollow microspheres, mineral hollow microspheres or combinations thereof.

Claim 22 (New): The syntactic polyurethane according to claim 21, wherein said organic hollow microspheres are hollow plastics spheres comprising polyethylene, polypropylene, polyurethane, polystyrene or a blend thereof.

Claim 23 (New): The syntactic polyurethane according to claim 11, wherein said mineral hollow microspheres comprise clay, aluminum silicate, glass or a mixture thereof.

Claim 24 (New): The syntactic polyurethane according to claim 11, wherein said hollow microspheres, in an interior, have a vacuum or partial vacuum or are filled with air, an inert gas, or a reactive gas.

Claim 25 (New): The syntactic polyurethane according to claim 11, wherein said hollow microspheres have a diameter of from 1 to 1000 $\mu$ m.

Claim 26 (New): The syntactic polyurethane according to claim 11, wherein said hollow microspheres have a bulk density of from 0.1 to 0.4 g/cm<sup>3</sup>.

Claim 27 (New): The syntactic polyurethane according to claim 11, wherein said hollow microspheres have a thermal conductivity of from 0.03 to 0.12 W/mK.

Claim 28 (New): The syntactic polyurethane according to claim 11, wherein said hollow microspheres are hollow glass microspheres.

Claim 29 (New): The syntactic polyurethane according to claim 11, wherein said hollow microspheres are hollow glass microspheres having a hydrostatic compressive strength of at least 20 bar.

Claim 30 (New): The syntactic polyurethane according to claim 11, comprising from 1 to 80 % by weight, based on a total weight of said syntactic polyurethane, of said hollow microspheres.